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# DELAWARE COLLEGE BULLETIN

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ANNOUNCEMENT BY THE DEPARTMENT  
OF ENGINEERING

COURSE IN MARINE TRANSPORTATION

SHIPBUILDING

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# A COURSE IN MARINE TRANSPORTATION

A new course in Engineering—Marine Transportation—will be offered at Delaware College, beginning September, 1918.

## THE COLLEGES AND THE WAR

The responsibility of the colleges in this national crisis is very great. It is not enough that they have sent out in the past trained men who are now taking the lead in the great struggle in which we are engaged; nor is it enough that now they shall continue to train men for intellectual leadership in the future; they must also, in order to justify their existence, be of real and immediate service at the present moment. They must bend their energies first of all to winning the war. In this great work, efforts of the colleges must be coordinated. Each college must try to do well the definite task which it seems best fitted to undertake.

## THE OPPORTUNITY OF DELAWARE COLLEGE

Delaware College has a splendid opportunity to be of very great immediate and future service to our country. Cooperating with the shipbuilding corporations of Wilmington, the Engineering Department of the college can be a vital factor in the training of shipbuilders.

America must today provide ships for the world. We must have ships; to build these ships we must have skilled shipbuilders. Some one must train the men to build the ships. We cannot win this war without ships; we cannot win the commercial war after the war without ships. We

must have skilled men to build the ships, to man the ships—men who know in theory and practice how to build hulls and engines; men who know how to navigate ships; men who know the business of shipping. In a word, we must have men who are training in shipping in all its phases—in design, in costs, in navigation, in maintenance; men who are trained to be leaders in trade and commerce. The need is great, growing greater every moment. The opportunities are greater than ever before.

The colleges of engineering must train these men. To Delaware College the need and the opportunity present themselves with great force. Located as it is so near the shipyards of Wilmington the college can cooperate with the shipyards there, and by basing its courses on the actual needs of the situation can give the kind of training which in the judgment of shipbuilding experts will fit its graduates for the greatest immediate usefulness.

### WHAT DELAWARE COLLEGE OFFERS

The Engineering Department of Delaware College offers a course in Marine Transportation which will help to train the men who are and will be needed in this great business of shipbuilding to which our country has definitely committed itself for many years to come. The course places emphasis upon the fundamentals of engineering and at the same time provides instruction in certain subjects which relate specifically to shipbuilding and marine transportation.

Much time is given to economics and business. Students are required to spend three summers in the shipyard, thereby gaining a practical contract with and insight into the yards themselves.

## ATTITUDE OF THE GOVERNMENT TOWARD TECHNICAL EDUCATION

The President of the United States and the Secretary of War have expressed themselves definitely in regard to Technical training. The President has written:

*"My attention has lately been called in particular to the falling off in the number of Engineering students, and this has given me a good deal of concern, because it is not only immediately necessary that as many students as possible should prepare themselves for engineering duties in the Army and Navy, but it is also of the first consequence to the country that there should be an adequate supply of engineers for the period of reconstruction which must follow the war."*

*"Not only has technical training become of enormous importance in military operations, but the role of the engineer has become more and more important in every process of our industrial life, and I hope that influence may go out from the meeting in Atlantic City, which will call the attention of parents throughout the country to the importance of making any sacrifice that it is possible to make to keep their sons in the schools even during these trying times."*

It should be clearly kept in mind that all engineering students who show a high standard of scholarship will not be called under the Selective Service Act until their courses are complete.

### COURSE IN MARINE TRANSPORTATION

#### FRESHMAN YEAR

<i>First Term</i>	H.	<i>Second Term</i>	H.
English Composition .....	3	English Composition .....	3
Modern Language .....	3	Modern Language .....	3
Algebra and Trigonometry. .	4	Elem. of Eng. Computation .	3
Chemistry (Inorganic) ....	5	Spherical Trigonometry ....	1
Descriptive Geometry .....	4	Chemistry (Inorganic) ....	5
Mechanical Drawing .....	3	Des. Geom. and Mechanical	
Shopwork .....	3	Drawing .....	7
Drill .....	3	Shopwork .....	3
Physical Training .....	1	Drill .....	3
American Government .....	2	Physical Training .....	1
	—	American Government .....	2
	31		—

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Summer in Shipbuilding Plant in Machine Shop

## SOPHOMORE YEAR

<i>First Term</i>	II.	<i>Second Term</i>	II.
English Literature .....	2	English Literature .....	2
Modern Language .....	3	Modern Language .....	3
Analytics .....	4	Calculus .....	4
Physics .....	8	Physics .....	8
Engineering Drawing .....	3	Engineering Drawing .....	3
Economics .....	3	Economics .....	3
Drill .....	3	Drill .....	3
Physical Training .....	1	Physical Training .....	1
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	27		27

### Summer in Shipbuilding Plant in the Boatyard

## JUNIOR YEAR

Calculus .....	3	Elementary Hull Const. ....	3
Mechanics of Engineering..	3	Mechanics of Engineering..	3
Kinematics .....	2	Kinematics .....	2
Graphics .....	2	Graphics .....	2
Practical Astronomy .....	2	Practical Navigation .....	2
Direct Currents .....	6	Alternating Currents .....	6
International Law .....	2	Foreign Exchange, Banking	2
European History .....	3	Transportation .....	3
Steam Boilers .....	2	Steam Boilers .....	2
Drill .....	3	Drill .....	3
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	28		28

### Summer in Engine Erection in Shipyard

## SENIOR YEAR

English Technical Reports..	1	English Technical Reports..	1
Mechanics of Materials ....	4	Mechanics of Materials ....	4
Testing Laboratory .....	3	Electrical Laboratory .....	6
Machine Design .....	6	Machine Design .....	6
Markets .....	3	International Trade .....	3
Hull Construction .....	3	Hull Construction .....	6
Steam Engines .....	4	Steam Engines .....	2
Business Administration ...	3	Business Finance .....	3
Drill .....	3	Drill .....	3
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	30		30

In addition to the above mentioned course Delaware College still continues to give its regular courses in Chemical, Civil, Electrical, and Mechanical Engineering leading to the degree of B. S.

For further information in regard to the courses here listed, address

*DEAN OF ENGINEERING,*

Delaware College, Newark, Delaware

UNIVERSITY OF ILLINOIS-URBANA



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